

Special Issue on
Electrospun Scaffolds for Tissue Engineering

CALL FOR PAPERS

The field of tissue engineering is rapidly advancing and many aspects of this remarkable progress would not be possible without the continuous innovative design and development of biomaterials and the unshakable devotion of researchers worldwide. In general, tissue engineering includes the fabrication of three-dimensional scaffolds that can support cell in-growth and proliferation. In this context, the generation of scaffolds with tailored, biomimetic geometries has become a progressively active area of research. Hence, a special issue is needed to cover the most recent advances and the emerging synthesis methods dedicated to fostering the development of electrospun scaffolds for tissue engineering.

This special issue will address different ways of production of electrospun scaffolds for tissue engineering which will be presented and their advantaged will be discussed. The main attention will be to electrospun scaffolds as this method allows generating controlled fibers assembling to fiber fleeces containing randomly oriented or aligned fibers. The biomaterials that can be obtained vary from native macromolecules to purely synthetic polymers; even metals and ceramics have been described. Electrospinning enables massive production of electrospun scaffold and might therefore be a very well designed, cost-efficient, and multipurpose technique to be applied for fabrication of scaffolds in tissue engineering.

Potential topics include but are not limited to the following:

- ▶ Electrospinning
- ▶ Nanofibers
- ▶ Scaffolds
- ▶ Soft biomaterials
- ▶ Metallic biomaterials
- ▶ Synthetic and biologic organic-inorganic composites nanofibers for tissue engineering
- ▶ Self-assembly and tissue engineering
- ▶ *In vitro* testing in cell cultures and microbial strains
- ▶ Composites
- ▶ Membrane
- ▶ Drug delivery with nanofibers
- ▶ Other related topics in electrospun scaffolds for tissue engineering realms

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jhe/este/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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